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TOP SECRET

OUT56293

1965 JUL 28 22 55Z 29 JUL 1965

P 282210Z
FM NPIC

[redacted]

YWQLAZC/AFSSO SAC
YWQLAZC/AFSSO ACIC
YWQLAZC/AFSSO FTD
ZEM
T O P S E C R E T [redacted].

CITE NPIC 5069.

SUBJECT: CAMERA INFORMATION FOR MISSION 1022-1.

1. THIS PHOTOGRAPHY INVOLVES THE USE OF EIGHT CAMERAS: TWO MAIN CAMERAS, FOUR HORIZON CAMERAS, A STELLAR CAMERA AND AN INDEX CAMERA.

2. CAMERA DATA

	FORWARD	AFT	STAR HOR	PORT HOR	STELLAR	INDEX
FOCAL LENGTH (MM)	609.625	609.60	FWD54.59 AFT55.187	FWD55.07 AFT55.159	(1)83.9547 (2)83.7619	(1)38.2241 (2)38.2848
FILTER (WRATTEN NUMBER)	25	21	25	25	NONE	21
APERTURE	F3.5	F3.5	F8.0	F6.8	F1.8	F4.5

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No.	Office	Act.
1	File	
2	OS	
	ADMIN	
	SEC BR	
	P&DS	
	C&D	
	IPD	
	PD	
	P&D	
	PSD/OB	
3,4	[illegible]	
	[illegible]	
	TAS	
	DIAXX 4	
	SPAD	
	NSA-10	
	DIA-AP	

25X1

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Declassification Review by NGA/DoD

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SLIT WIDTH (IN.)/EX-						
POSURE (SEC.)	.250	.175	1/100	1/100	2.0	1/500
FILM	3404	3404	3404	3404	3401	3400
RESOLUTION						
(L/MM)	184	193	FWD 116	FWD 123		(1) 72.5
			AFT 164	AFT 164		(2) 72.2

NOTE: NUMBERS (1) AND (2) UNDER STELLAR AND INDEX HEADINGS REFER TO PART-1 AND PART-2 OF THE MISSION.

3. LENS DISTORTION (PIN CUSHION) MM

A. MAIN LENS	3	2	1	0	359	358	357
FWD UNIT	.004	.002	.000	.000	.000	.002	.005
AFT UNIT	.002	.002	.000	.000	.002	.003	.004

B. HORIZON CAMERAS (MM)	FWD		AFT	
	PORT	STARBOARD	PORT	STARBOARD
(RADIAL) 10 DEGREES	.000	.001	.009	.026
20 DEGREES	.007	.001	.013	.045
(TANGENTIAL) MAX VECTOR	.005	.006	.007	.003

4. CAMERA ANGLES

		DEGREES	MINUTES
A. ANGLE BETWEEN MAIN CAMERAS		29	40.07
B. ANGLE BETWEEN STELLAR AND INDEX CAMERAS	PART (1)	89	52.2
	PART (2)	90	11.5
C. DEPRESSION ANGLE BETWEEN HORIZON AND MAIN CAMERAS	FWD STARBOARD	15	01
	FWD PORT	15	21
	AFT STARBOARD	15	05
	AFT PORT	15	50

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5. TIMING MARKS

FREQUENCY MARKS WILL APPEAR ON THE FILM AT A RATE OF 200 CYCLES PER SECOND.

6. IMAGE MOTION COMPENSATION DATA (CYCLE RATE(CPS), GROUND ANGULAR VELOCITY(GAV) IN RAD/SEC, AND PASSES WHERE USED).

REF. LEVEL		AMPL. LEVEL		PASSES
NO. CPS.	GAV.	NO. CPS.	GAV.	
8 .3223	.0291	3 .1296	.0117	1D1 THRU 20D3
7 .3379	.0306	33 .1296	.0117	22D1 THRU 63D1

7. PROGRAM TIME DATA

PASS	CAMERA ON TIME (ZEBRA TIME) DAY	HOUR	MIN	SEC	PROGRAM ON TIME PROGRAM UP RAMP SEC	PROGRAM DURATION SEC
1D1	19	23	27	58	1205	60
2D1	20	00	57	32	1115	49
5D1	20	05	28	03	971	231
5D2	20	05	38	10	1578	55
6D1	20	07	03	02	1210	130
6D2	20	07	06	09	1398	55
6D3	20	07	09	05	1574	55
7D1	20	08	36	42	1372	38
7D2	20	08	37	56	1446	39
7D3	20	08	39	10	1520	164
8D1	20	10	06	51	1322	56
8D2	20	10	09	20	1471	187
9AE	20	11	17	33	106	47

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9D 1	20	11	37	23	1296	277
10D 1	20	13	17	14	1827	84
11D 1	20	14	47	33	1788	45
11D2	20	14	48	53	1868	45
16D 1	20	22	20	40	1682	25
18D 1	21	01	14	54	1220	93
18D2	21	01	27	23	1968	45
19D 1	21	02	45	10	1178	69
19D2	21	02	47	26	1314	144
20D 1	21	04	15	32	1142	93
20D2	21	04	21	24	1494	54
20D3	21	04	37	12	2442	113
22D 1	21	07	15	12	1007	59
22D2	21	07	17	09	1125	223
22D3	21	07	21	42	1397	70
22D4	21	07	34	22	2157	83
23D 1	21	08	46	31	1030	58
23D2	21	08	54	26	1504	229
23D3	21	08	58	50	1769	140
24D 1	21	10	31	24	1865	54
25D 1	21	11	54	43	1406	158
25D2	21	12	08	49	2253	143
26D 1	21	13	33	47	1892	99
27D 1	21	14	50	16	1025	76
28D 1	21	16	25	46	1297	83
29D 1	21	18	17	46	2560	173

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30D 1	21	19	25	30	1167	102
31D 1	21	20	57	42	1230	113
31D2	21	21	06	52	1780	55
35D 1	22	03	04	29	1423	130
36D 1	22	04	37	28	1546	142
37D 1	22	06	01	56	1156	193
37D2	22	06	07	57	1517	55
37D3	22	06	10	45	1685	55
38D 1	22	07	33	37	1203	227
38D2	22	07	39	01	1466	54
38D3	22	07	39	59	1585	149
39D 1	22	09	11	21	1606	179
40D 1	22	10	36	30	1260	71
40D2	22	10	39	15	1424	196
42D 1	22	13	49	46	1944	99
*47D 1	22	21	21	33	1771	47
53D 1	23	06	23	33	1555	55
53D2	23	06	26	29	1731	360
54D 1	23	07	53	48	1515	84
54D2	23	07	57	28	1735	199
55D 1	23	09	24	02	1473	349
56D 1	23	10	52	17	1313	54
56D2	23	10	54	31	1447	276
56D3	23	11	01	37	1873	84
58D 1	23	14	04	46	1951	85
62D 1	23	20	08	56	1979	47

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63D 1 23 21 37 17 1826 52

*NOTE: DATA IS SAME FOR BOTH THE MASTER (FWD) AND SLAVE (AFT) UNITS EXCEPT ON PASSES 1D 1 AND 47D 1. ABOVE DATA IS FOR FWD WITH DATA FOR AFT GIVEN BELOW.

1D 1 19 23 28 13 1220 31

47D 1 22 21 21 48 1785 19

8. TIME CORRELATION (MILLISECONDS)

PASS	CLOCK TIME	SYSTEM TIME	DIFFERENCE
9	104793.6439	40717.2973	---
16	144561.9559	80485.6018	.007
24	186716.2199	36239.8573	.008
31	226471.8449	75995.4739	.008
40	274082.6269	37206.2453	.011
47	313825.7079	76949.3170	.009
55	355879.5419	32603.1408	.010
63	401078.4089	77801.9962	.012

NOTE: ALL "DIFFERENCE" VALUES ARE PLUS.

9. REMARKS

A. S/I UNIT - PART 1 D65/77/70

PART 2 D24/24/24

GP-1.

T O P S E C R E T

-END OF MESSAGE-

(ALSO PASSED TO [redacted]

25X1

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